

Please amend the application as follows:

In the Specification

*Please replace the paragraphs at page 1, lines 8 through 18 with the following paragraphs:*

---

Serial No. 09/321,090, filed May 28, 1999, entitled A QUORUMLESS CLUSTER USING DISK-BASED MESSAGING, by Richard Frank, Michael Cusson, Joydip Kundu, and Daniel E. O'Shaughnessy, inventors;

Serial No. 09/321,998, filed May 28, 1999, entitled AVOIDING N-SQUARED HEARTBEAT MESSAGING PROBLEM IN AN OPERATING CLUSTER VIA CLOSED LOOP MESSAGING THEME, by Richard Frank, Michael Cusson, Joydip Kundu, and Daniel E. O'Shaughnessy, inventors; and

Serial No. 09/321,967, filed May 28, 1999, entitled PROVIDING FIGURE OF MERIT VOTE FROM APPLICATION EXECUTING ON A PARTITIONED CLUSTER, by Richard Frank, Michael Cusson, Joydip Kundu, and Daniel E. O'Shaughnessy, inventors.

---

*Please replace the paragraph at page <sup>11</sup> ~~10~~, lines <sup>4-9</sup> ~~21~~ through ~~26~~ with the following paragraph:*

---

As described above in conjunction with FIG. 2, the cluster manager 32, in concert with the cluster managers residing on node\_2 - node\_4 14, 16, 18, manages cluster connectivity within the quorumless cluster 10. For the cluster managers to effectively cooperate in the connectivity management endeavor, a facility for sharing data is provided. The shareable storage device 22 of FIG. 1 houses a repository for this data sharing facility.

---

*Please replace the paragraphs in the Abstract, at page 24, lines 5 through 24 with the following paragraphs:*

---

A quorumless network cluster provides a highly available system by addressing the partition-in-space and partition-in-time problems in network clusters.

3 In a particular solution, a cluster manager (CM) can use disk based messaging to manage the operation of the cluster. Each node within the cluster must have access to a shared disk to operate within the cluster.

A particular methodology can operate the cluster in a closed loop between nodes 1 to N. If a node fails to receive a heartbeat message from its predecessor in the loop, it initiates a cluster reconfiguration by sending a reconfiguration message to each other node in the cluster.

The quorumless cluster can also include a common storage for a cluster definition. Each node may provide a proposed change to the cluster definition, however only a single coordinator node may update the cluster definition and apply the suggested changes.

---

*Amendments to the specification are indicated in the attached "Marked Up Version of Amendments" (pages i - ii ).*